

## 1    Abstract of Disclosure

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3    A filament-wound composite coupling for use in assembling a restrained joint between  
4    large diameter pipes with complementary retaining grooves, such as 16 inch or larger  
5    outer diameter polyvinyl chloride pipes. The coupling has first and second ends and  
6    ported retaining grooves associated with each end. Preferably, the coupling also includes  
7    O-ring seals and a pipe stop to index the pipes to be coupled. The composite coupling  
8    has a cylindrical composite body with a plurality of concentrically arranged layers of  
9    wound filaments in a thermoset plastic matrix. Each of the layers is characterized by a  
10    winding angle opposing the winding angle of the adjoining layers.